

WHAT IS CLAIMED IS:

1. A winding structure of an inductor used in a power factor correction circuit, comprising:

a ring-shaped core with a gap; and

a first coil and a second coil wound around said core, wherein the negative end of said first coil and the positive end of said second coil is coupled to form a central tap.

2. The winding structure according to claim 1 wherein said core is further covered with an insulating layer.

3. The winding structure according to claim 2 wherein said insulating layer is made of polyvinyl chloride (PVC).

4. The winding structure according to claim 1 wherein each of said first coil and said second coil is made double by winding two parallel winding conductors around said core.

5. The winding structure according to claim 1 wherein said core is further wrapped by an adhesive tape.

6. An apparatus for fastening a winding structure of an inductor, said winding structure comprising a ring-shaped core wound around a first coil and a second coil, said apparatus comprising:

an upper bracket having a first plate with a first opening in the center and a first sleeve extending downwards; and

a lower bracket having a second plate with a second opening in the center and a second sleeve extending upwards, wherein said first sleeve are in contact with said second sleeve and inserted into the interior space of said winding structure.

7. The apparatus according to claim 6 wherein said upper bracket and said

lower bracket are connected by coupling a screw with a nut.